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# What Size Pond Pump Do I Need?

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Our Guide to Bermuda & Libel Xtra Pond Pumps

At Crown Garden Centre & Nursery we stocks both Bermuda Submersible Pond Pumps and Libel Xtra Fountain & Water Feature Pump. Page 2 to 5 explains flow rates that can be achieved from the range of Bermuda pond pumps. Page 6 explains the flow rate and recommended ponds size for use with each pump of the Libel Xtra pumps.

## Bermuda Submersible Pond Pumps:



9 models are available from 750 litres per hour, to 8000 litres per hour.

All sizes come supplied complete with fountain jets, flow adjusters, extension pipe and hose adaptor

Suitable for creating fountains and waterfalls.

Continuously rated so ideal for powering filters.

10m outdoor cable with every pump.

3 year guarantee.

Low wattage.

Table .1. on page 3 show the flow rate per hour that can be achieved from each of the Bermuda pumps. The head height flow (hh) is the flow rate that can be achieved when there is no lift in the level the water is being pumped. As the table goes across it shows the flow rate for each pump from a lift of 0.5m to 5m.

When looking at the level of lift required you have to take into account restriction on the flow such as long lengths of pipe and pumping the water through a filter or UV. If your system contains a filter or UV allow an extra 0.5 of lift. Use as little pipe as possible (less than 3m ideally) and the large (25mm or bigger) to reduce the restriction on flow.

It is recommended the full volume of a pond can be turned over every 2-3 hours, so table .2. shows the flow rate every 2.5 hours to give a rough guide of water the volume of water each pump is capable of turning over in 2-3 hours.

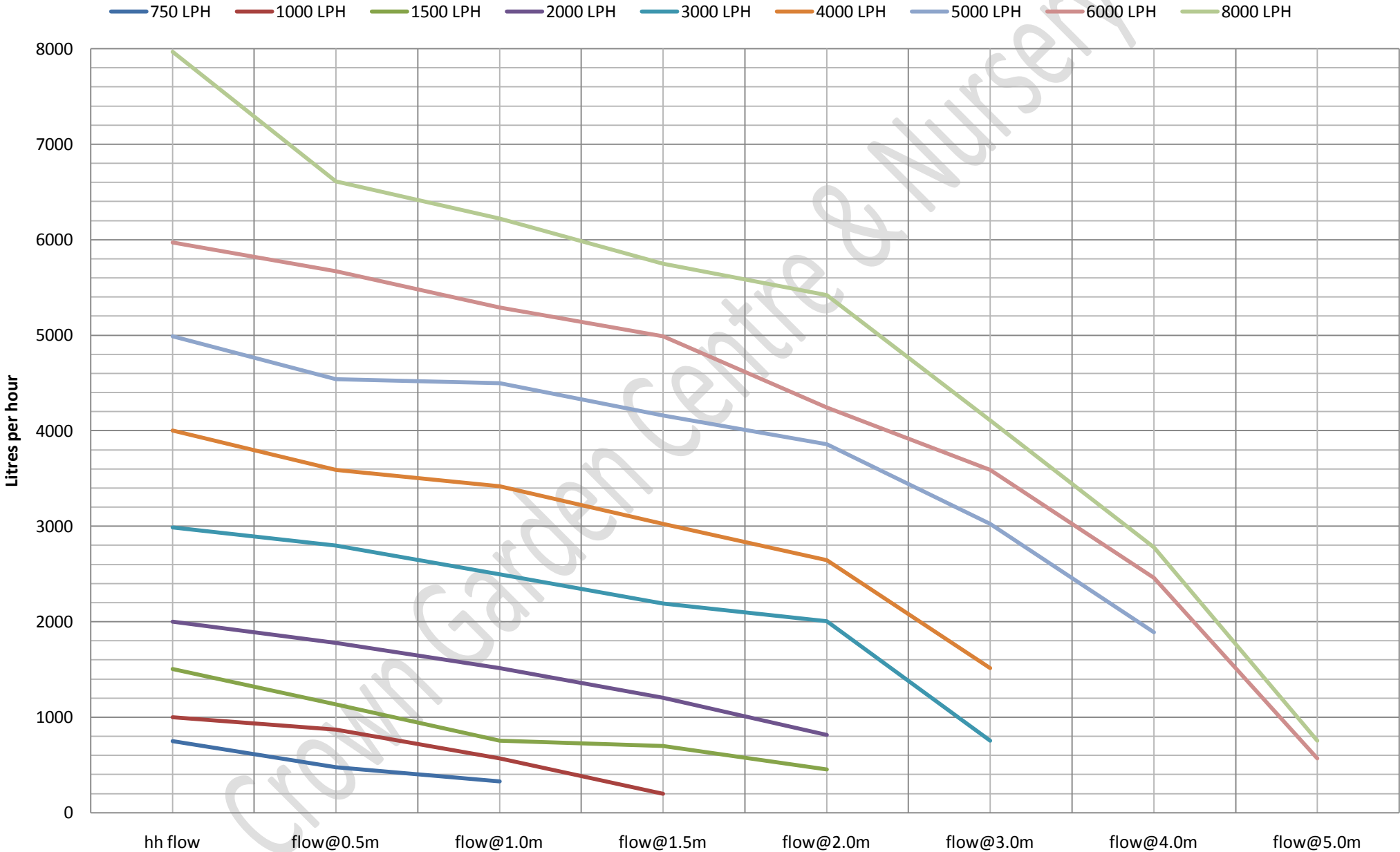
Finally Figure.1. & Figure.2. show the data in the tables 1 & 2 in the form of graphs.

<b>Bermuda Submersible Pumps - Flow Per Hour</b>										Table .1.
<b>Pump</b>	hh flow Litres (per hour)	flow@0.5m Litres (ph)	flow@1.0m Litres (ph)	flow@1.5m Litres (ph)	flow@2.0m Litres (ph)	flow@3.0m Litres (ph)	flow@4.0m Litres (ph)	flow@5.0m Litres (ph)	Wattage	Head Metres
750 LPH	750	478	327						12w	1.6
1000 LPH	1000	870	567	200					16w	1.7
1500 LPH	1506	1134	756	699	454				25w	2.5
2000 LPH	2000	1777	1512	1201	813				45w	2.8
3000 LPH	2986	2797	2495	2192	2003	756			70w	3.0
4000 LPH	4000	3591	3418	3024	2646	1512			110w	4.0
5000 LPH	4989	4540	4498	4158	3856	3024	1890		190w	5.0
6000 LPH	5972	5670	5292	4990	4241	3591	2457	567	190w	5.5
8000 LPH	7968	6610	6220	5750	5420	4110	2780	756	205w	5.7

<b>Bermuda Submersible Pumps - Flow per 2.5 hours</b>										Table .2.
<b>Pump</b>	hh flow Litres	flow@0.5m Litres	flow@1.0m Litres	flow@1.5m Litres	flow@2.0m Litres	flow@3.0m Litres	flow@4.0m Litres	flow@5.0m Litres	Wattage	Head Metres
750 LPH	1875	1195	817.5						12w	1.6
1000 LPH	2500	2175	1417.5	500					16w	1.7
1500 LPH	3765	2835	1890	1747.5	1135				25w	2.5
2000 LPH	5000	4442.5	3780	3002.5	2032.5				45w	2.8
3000 LPH	7465	6992.5	6237.5	5480	5007.5	1890			70w	3.0
4000 LPH	10000	8977.5	8545	7560	6615	3780			110w	4.0
5000 LPH	12472.5	11350	11245	10395	9640	7560	4725		190w	5.0
6000 LPH	14930	14175	13230	12475	10602.5	8977.5	6142.5	1417.5	190w	5.5
8000 LPH	19920	16525	15550	14375	13550	10275	6950	1890	205w	5.7

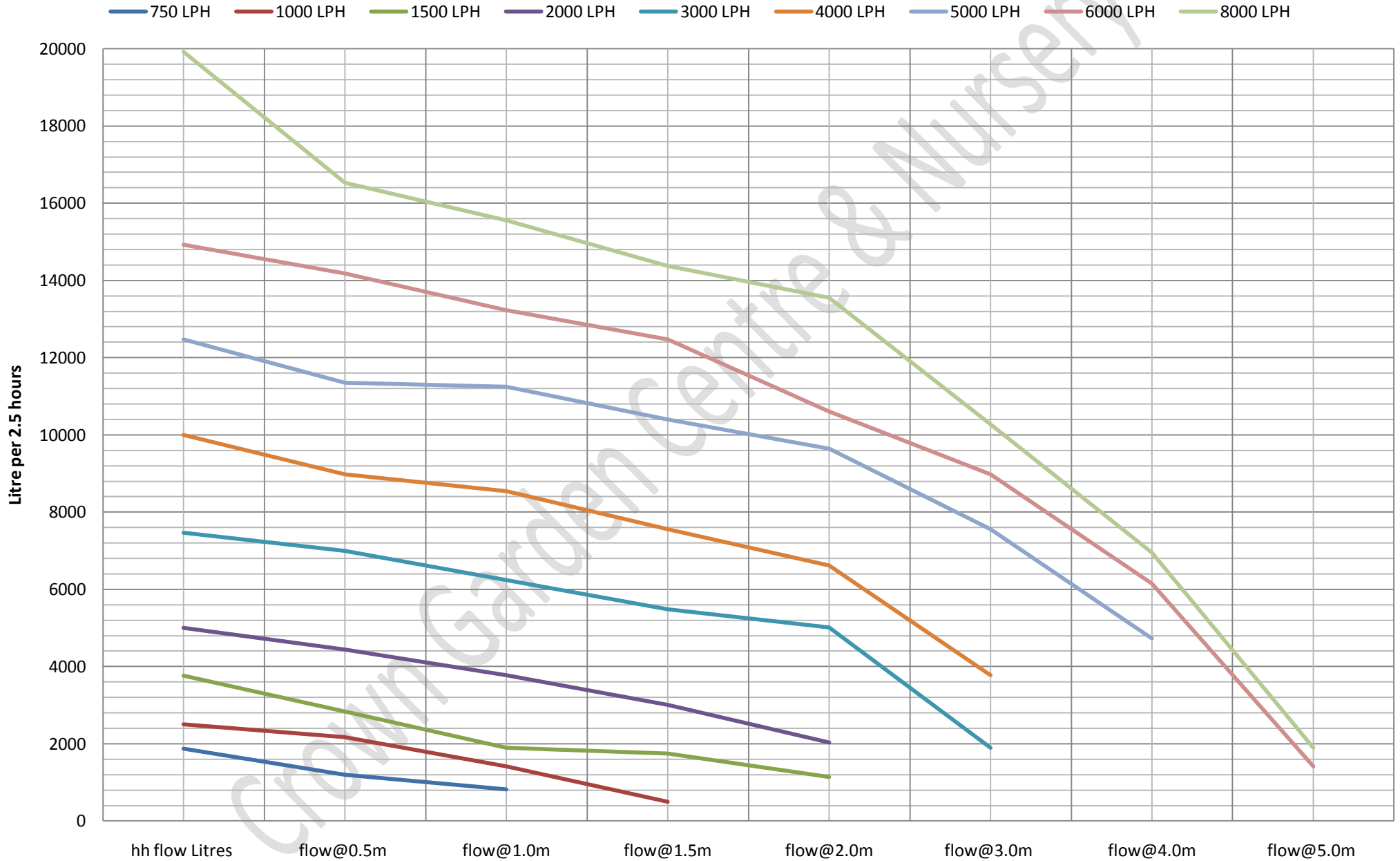
### Bermuda Pond Pump Flow Rates in Litres per hour

Figure .1.

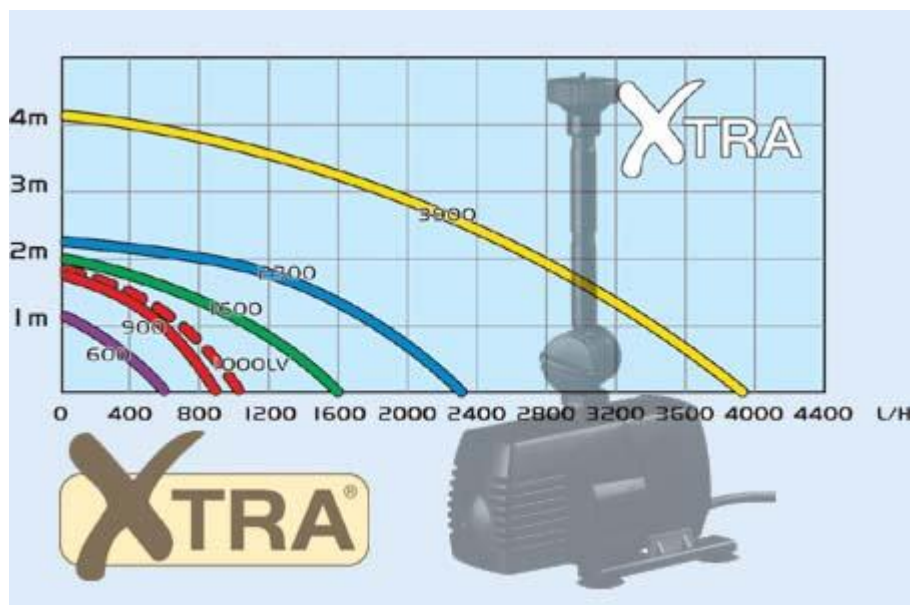


### Bermuda Pond Pump - Flow per 2.5 hours

Figure .2.



## Libel Xtra Pond Pumps:



Pump	Max Flow (Litres per hour)	Max Head Height (metres)
350i	350	0.9
600	600	1.1
900	900	1.8
1600	1600	2.0
2300	2300	2.2
3900	3900	4.2
6000 Fi	6550	2.2

Table below shows the size of pond that each pump can be used with.

	Xtra 600	Xtra 900	Xtra 1600	Xtra 2300	Xtra 3900
Start 150Ltr					
Start 250Ltr					
Start 500Ltr					
Start 750Ltr					
Start 1000Ltr					
Liner 2x3m					
Liner 4x3m					
Liner 4x4					
Liner 4x5m					
Liner 6x4m					
Liner 6x5m					
Liner 6x7m					
Liner 8x6m					

Xtra 300i – Indoor pump. Comes with only 1.8m of cable. Rubber mountings ensure minimal noise.

Xtra 600 – Ideal for pebble ponds & small ponds. Includes: 9 & 13mm hose sockets, one 45 x 55cm (h x Ø) fountain head, flow adjuster.

Xtra 900 – Ideal for small to medium sized ponds. Includes: 9, 13 & 19mm hose sockets, one 30cm (Ø) bell fountain.

Xtra 1600 – Ideal for small to medium sized ponds. Includes: 9, 13 & 19mm hose sockets, one 90 x 60cm (h x Ø) fountain head and one 45cm (Ø) bell fountain.

Xtra 2300 – Ideal for medium sized ponds. Includes: 9, 19 & 25mm hose sockets, one 95 x 65cm (h x Ø) fountain head and one 50cm foaming jet.

Xtra 3900 – Ideal for medium to large ponds. Includes: 19, 25 & 33mm hose sockets, one 100 x 90cm (h x Ø) fountain head & one 50cm foaming jet.

Xtra 6000 Fi – Ideal for waterfalls. Includes 4mm solid handling, 1" outlet & hosetail fitting. Suitable for ponds without fish up to 20,000Ltrs and pond with fish up to 10,000Ltrs. Can handle solid particles up to 8mm. Maximum flow rate: 6550Ltrs per hour. Flow rate at 1m lift: 5250Ltrs per hour. Flow rate at 2m lift: 3000Ltrs per hour.